

INTERNATIONAL SEARCH REPORT

PCT/BE 03/00100

A. CLASSIFICATION OF SUBJECT MATTER IPC 7 E04H4/12 A63B69/12		
According to International Patent Classification (IPC) or to both national classification and IPC		
B. FIELDS SEARCHED Minimum documentation searched (classification system followed by classification symbols) IPC 7 E04H B01D A63B		
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched		
Electronic data base consulted during the international search (name of data base and, where practical, search terms used) EPO-Internal, WPI Data, PAJ		
C. DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 3 616 468 A (TAKACS JOHN G) 2 November 1971 (1971-11-02) column 2, line 27 -column 4, line 2; figures 1,2	1-3,6, 8-10,15, 16
A	US 3 173 865 A (BOSICO TONY S) 16 March 1965 (1965-03-16) column 1, line 67 -column 2, line 37; figures 1-3	1,15
A	EP 0 761 909 A (KSB SA) 12 March 1997 (1997-03-12) column 3, line 54 -column 4, line 39; figure 1 -/-	1,10,11
<input checked="" type="checkbox"/> Further documents are listed in the continuation of box C. <input checked="" type="checkbox"/> Patent family members are listed in annex.		
* Special categories of cited documents : "A" document defining the general state of the art which is not considered to be of particular relevance "E" earlier document but published on or after the international filing date "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or other means "P" document published prior to the international filing date but later than the priority date claimed "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art. "&" document member of the same patent family		
Date of the actual completion of the international search 7 October 2003		Date of mailing of the international search report 14/10/2003
Name and mailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016		Authorized officer Zuurveld, G

INTERNATIONAL SEARCH REPORT

PCT/BE 03/00100

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 4 740 307 A (BUELTEMAN VERNON P) 26 April 1988 (1988-04-26) column 1, line 62 -column 4, line 14; figures 1-4	1,4,17
A	US 5 785 846 A (BARNES STEVEN R ET AL) 28 July 1998 (1998-07-28)	

INTERNATIONAL SEARCH REPORT

PCT/BE 03/00100

Patent document cited in search report		Publication date	Patent family member(s)		Publication date
US 3616468	A	02-11-1971	NONE		
US 3173865	A	16-03-1965	NONE		
EP 0761909	A	12-03-1997	FR	2738027 A1	28-02-1997
			EP	0761909 A1	12-03-1997
US 4740307	A	26-04-1988	AU	2153988 A	13-04-1989
			FR	2621653 A1	14-04-1989
			GB	2210787 A	21-06-1989
			ZA	8806262 A	25-10-1989
US 5785846	A	28-07-1998	NONE		